# 03050202-010

***(Cypress Swamp)***

## General Description

Watershed 03050202-010 is located in Berkeley and Dorchester Counties and consists primarily of ***Cypress Swamp*** and its tributaries from its origin to Captains Branch. The watershed occupies 100,347 acres of the Lower Coastal Plain region of South Carolina. The predominant soil types consist of an association of the Rains-Hobcaw-Lynchburg-Mouzon series. The erodibility of the soil (K) averages 0.20; the slope of the terrain averages 1%, with a range of 0-2%. Land use/land cover in the watershed includes: 71.5% forested land, 13.2% forested wetland, 6.6% agricultural land, 6.6% scrub/shrub land, 0.9% urban land, 0.6% barren land, 0.5% water, and 0.1% nonforested wetland.

Williams Branch flows into Big Run and is joined by Black Creek to form Wassamassaw Swamp, which accepts drainage from Mill Branch, Caton Creek, and Simmons Bay. Partridge Creek (Rudd Branch, Mill Branch) joins Wassamassaw Swamp to form the headwaters of the Cypress Swamp. The Cypress Swamp receives drainage from Sandy Run (Smith Branch), Miller Dam Branch, Felder Branch, Dawson Branch, Stanley Branch (Kelly Branch), and Green Bay Branch near the Town of Ridgeville. There are a total of 236.4 stream miles in this watershed, all classified FW.

## Water Quality

| Station # | Type | Class | Description |
|---|---|---|---|
| CSTL-063 | P | FW | WASSAMASSAW SWAMP AT U.S. 176 |
| CSTL-078 | W | FW | CYPRESS SWAMP AT U.S. 78 |

***Wassamassaw Swamp (CSTL-063)*** - Aquatic life uses are fully supported, but there is a significant increasing trend in turbidity. This is a blackwater system, characterized by naturally low dissolved oxygen concentrations. Although dissolved oxygen excursions occurred, they were typical of values seen in such systems and were considered natural, not standards violations. Significant decreasing trends in five-day biochemical oxygen demand and total nitrogen concentrations suggest improving conditions for these parameters. P,P'DDT was detected in the 1995 and 1997 sediment samples and P,P'DDE was also detected in the 1995 sample. Although the use of DDT was banned in 1973, it is very persistent in the environment. Recreational uses are partially supported due to fecal coliform bacteria excursions, compounded by a significant increasing trend in fecal coliform bacteria concentrations.

***Cypress Swamp (CSTL-078)*** - Aquatic life uses are fully supported. This is a blackwater system, characterized by naturally low dissolved oxygen concentrations. Although dissolved oxygen excursions occurred, they were typical of values seen in blackwater systems and were considered natural, not standards violations. Recreational uses are not supported due to fecal coliform bacteria excursions.

## NPDES Program

### *Active NPDES Facilities*

| *RECEIVING STREAM*<br>*FACILITY NAME*<br>*PERMITTED FLOW @ PIPE (MGD)*<br>*COMMENT* | *NPDES#*<br>*TYPE*<br>*LIMITATION* |
|---|---|
| MILL BRANCH<br>D&A PARTNERSHIP/CUMBIE PIT<br>PIPE #: 001 FLOW: M/R | SCG730115<br>MINOR INDUSTRIAL<br>EFFLUENT |

## Nonpoint Source Management Program

### *Mining Activities*

| *MINING COMPANY*<br>*MINE NAME* | *PERMIT #*<br>*MINERAL* |
|---|---|
| ACD, A PARTNERSHIP<br>DANGERFIELD MINE (17A) | 0625-15<br>SAND/CLAY |
| SALISBURY BRICK CORPORATION<br>NEW HOPE MINE | 0722-15<br>CLAY |
| BROWNING-FERRIS IND. OF S. ATLANTIC<br>JEDBURG, S-8-16 | 0837-15<br>SAND/CLAY |
| SALISBURY BRICK CORPORATION<br>SALISBURY BRICK MINE | 0562-35<br>CLAY |
| SALISBURY BRICK CORPORATION<br>RED HILL MINE | 0972-35<br>CLAY |
| SALISBURY BRICK CORPORATION<br>DUKES MINE | 0979-35<br>CLAY |
| JOHN R. CUMBIE<br>JOHN R. CUMBIE MINE | 0747-15<br>SAND/CLAY |
| TRULUCK INDUSTRIES, INC.<br>BERKELEY MINE | 0935-15<br>SAND |

### *Land Disposal Activities*

**Landfill Facilities**

| *SOLID WASTE LANDFILL NAME*<br>*FACILITY TYPE* | *PERMIT #*<br>*STATUS* |
|---|---|
| WESTVACO<br>INDUSTRIAL | 082430-1601 (IWP-201)<br>ACTIVE |
| BFI<br>MUNICIPAL | DWP-129, DWP-163<br>CLOSED |
| TRIDENT NORTH LANDFILL (BFI)<br>INDUSTRIAL | IWP-163<br>CLOSED |

## Growth Potential - **Low density population growth is projected to occur in this watershed.**